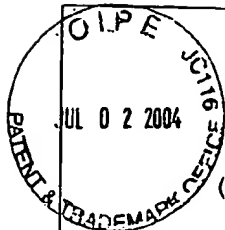


1 OF 13


**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

 Form PTO-1449 (Modified)
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COMPLETE IF KNOWN

Application Number	09/920,903
Confirmation Number	8061
Filing Date	August 3, 2001
First Named Inventor	Brian G. Agee
Group Art Unit	2631
Examiner Name	
Attorney Docket No.	101948023US21

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
llt		4,383,332		Glance et al.	05/10/1983	

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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

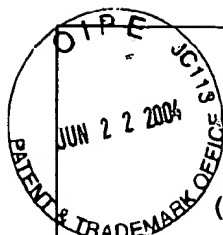
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		NUMBER	Kind Code (if known)			
llt		5,613,219		Vogel et al.	03/18/1997	
llt		5,924,034		Dupuy	07/13/1999	

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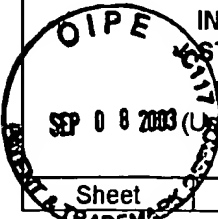
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		NUMBER	Kind Code (if known)			
llt		3,522,540		Lee	08/04/1970	
llt		3,633,107		Brady	01/04/1972	
llt		3,971,988		Denenberg	07/27/1976	
llt		4,249,181		Lee	02/03/1981	
llt		4,381,562		Acampora	04/26/1983	
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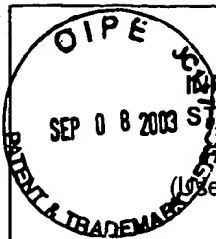
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				Group Art Unit	2631
Examiner Name					
Sheet	2	of	5	Attorney Docket No.	101948023US21

U.S. PATENT DOCUMENTS						
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		NUMBER	Kind Code (if known)			
llk		5,367,539		Copley	11/22/1994	
llk		5,394,435		Weerackody	02/28/1995	
llk		5,400,322		Hunt et al.	03/21/1995	
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 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) Use several sheets if necessary				COMPLETE IF KNOWN	
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				First Named Inventor	Brian G. Agee
				Group Art Unit	2631
Examiner Name					
Sheet	3	of	5	Attorney Docket No.	101948023US21

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llt		5,914,981		Veintimilla	06/22/1999	
llt		5,943,375		Veintimilla	08/24/1999	
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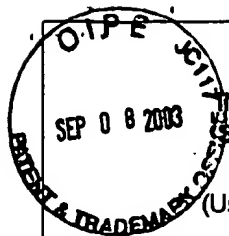
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Sheet	4	of	5	Attorney Docket No.	101948023US21

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		NUMBER	Kind Code (if known)			
llt		US 2002/0034217; atty. docket no. 101948046US3	A1	Zhang	Pub. Date 03/21/2002	
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		Office	NUMBER	Kind Code (if known)				
llt		EP	0 490 509	B1	Northern Telecom Ltd.	06/17/1992		
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llt		EP	0 637 181	B1	Siemens Aktiengesellschaft	02/01/1995		
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Sheet

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		Office	NUMBER	Kind Code (if known)				
llt		EP	0 685 973	A2	AT&T Corp.	12/06/1995		
llt		EP	0 690 593	A2	Mitsubishi Denki Kabushiki	01/03/1996		
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llt		WO	97/02665	A	Interdigital Technology Corporation	01/23/1997		
llt		WO	98/35463	A2	AT&T Wireless Services, Inc.	08/13/1998		
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llt		CA	2,278,852		AT&T Wireless Services, Inc.	08/13/1998		

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llt		CHAN et al., "Efficient Frequency Assignments Scheme for Intermodulation Distortion Reduction in Fiber-Optic Microcellular Systems," Electronic Letters, October 27, 1994, pp. 1831-1832, Vol. 30, No. 22, IEEE, Stevenage, UK	
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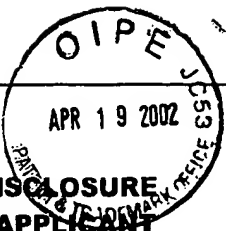
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PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



Substitute for form 1449A/PTO

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		NUMBER	Kind Code (if known)			
llt	AA	5,054,035		Tarallo et al.	10/11/91	
llt	AB	5,515,378		Roy III et al.	5/7/96	
llt	AC	5,541,954		Emi	7/30/96	
llt	AD	5,598,428		Sato	1/28/97	
llt	AE	6,160,839		Zhang	12/12/00	
llt	AF	6,359,923		Agee et al.	3/19/02	
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	AH					
	AI					

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		Office	Number	Kind Code (if known)				
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	AL							
	AM							

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llt	AN	CIMINI, Jr. LEONARD J., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing," July 1985, IEEE Transactions on Communications, Vol. Comm. 33, No. 7, pp. 665-675, IEEE, New York	
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Page 1 of 5

FORM PTO-1449				Attorney Docket: 4271-4036US3		Serial No.: Cont. of 08/993,721	
INFORMATION DISCLOSURE CITATION				Applicant: Agee et al.			
				Filing Date: 08/03/01		Group Art Unit: Unassigned	
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
llt	AA	5,504,775	04/02/96	Chouly et al.			
llt	AB	5,896,425	04/1999	Hirano et al.			
llt	AC	5,923,700	07/1999	Zhang			
llt	AD	5,933,421	08/1999	Alamouti et al.			
llt	AE	5,999,569	12/1999	Oshima			
llt	AF	5,414,699	05/09/95	Lee			
llt	AG	5,490,174	02/06/96	Shin et al.			
llt	AH	5,278,892	01/11/94	Bolliger et al.			
llt	AI	3,745,464	07/10/73	Lee			
llt	AJ	4,827,499	05/02/89	Warty et al.			
llt	AK	5,305,308	04/19/94	English et al.			
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llt	AP	WO 96/31009A	10/03/96	WIPO			<input type="checkbox"/> Yes <input type="checkbox"/> No
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	AT						
Examiner <i>KHAT TRAN</i>				Date Considered <i>6/10/05</i>			
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FORM PTO-1449 INFORMATION DISCLOSURE CITATION				Attorney Docket: 4271-4036US3		Serial No.: Cont. of 08/993,721	
				Applicant: Agee et al.			
				Filing Date: 08/03/01		Group Art Unit: Unassigned	
U.S. PATENT DOCUMENTS							
Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date	
RLK	AA	5,084,869	01/28/92	Russell			
RLK	AB	5,226,071	07/06/93	Bolliger et al.			
RLK	AC	4,495,648	01/22/85	Giger			
RLK	AD	5,136,612	08/04/92	Bi			
RLK	AE	4,644,562	02/17/87	Kavehrad			
RLK	AF	5,515,378	05/07/96	Roy III et al.			
RLK	AG	4,488,445	12/18/84	Aske			
RLK	AH	5,410,538	04/25/95	Roche et al.			
RLK	AI	5,260,967	11/09/93	Schilling			
RLK	AJ	5,291,475	03/01/94	Bruckert			
RLK	AK	5,319,634	06/07/94	Bartholomew			
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Sub-Class	Translation	
RLK	AL 0 696 856A	02/14/96	EPO			<input type="checkbox"/> Yes <input type="checkbox"/> No	
RLK	AM 0 668 664A	08/23/95	EPO			<input type="checkbox"/> Yes <input type="checkbox"/> No	
RLK	AN WO 94/05094A	03/03/94	WIPO			<input type="checkbox"/> Yes <input type="checkbox"/> No	
	AO					<input type="checkbox"/> Yes <input type="checkbox"/> No	
	AP					<input type="checkbox"/> Yes <input type="checkbox"/> No	
OTHER DOCUMENTS (Including Author, Title, Date, etc.)							
	AR						
	AS						
	AT						
Examiner KHAI TRAN				Date Considered 6/2/05			
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U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub- Class	Filing Date
<i>llt</i>	AA	5,319,634	06/07/94	Bruckert			
<i>llt</i>	AB	4,383,332	05/10/83	Glance et al.			
<i>llt</i>	AC	5,260,968	11/09/93	Gardner et al.			
<i>llt</i>	AD	5,481,570	01/02/96	Winters			
<i>llt</i>	AE	5,933,478	08/03/99	Ozaki et al.			
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
	AL						
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	AN						
	AO						
	AP						
OTHER DOCUMENTS (Including Author, Title, Date, etc.)							
<i>llt</i>	1	Theodore S. Rappaport, "Multiple Access Techniques for Wireless Communications," WIRELESS COMMUNICATIONS: PRINCIPLES AND PRACTICE, 1996 Prentice Hall, Chapter 8, pp. 395-410.					
<i>llt</i>	2	Litva et al., "Fundamentals of Digital Beamforming", DIGITAL BEAMFORMING IN WIRELESS COMMUNICATIONS, 1996 Artech House, Inc., Chapter 2, pp. 13-57.					
<i>llt</i>	3	Ramjee Prasad, "CDMA System Concepts", CDMA FOR WIRELESS PERSONAL COMMUNICATIONS, 1996 Artech House, Inc., Chapter 3, pp. 39-61.					
<i>llt</i>	4	Swales et al., IEEE Trans. Veh. Technol. Vol. 39, No. 1, February 1990					
<i>llt</i>	5	Chang, Bell Sys. Tech. Jour., Vol. 45, pp. 1775-1796, Dec. 1966					

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llt	6	Weinstein and Ebert, IEEE Trans. on Comm. Tech., Vol. com-19, No. 5, Oct. 1971, page 628.	
llt	7	"Multicarrier CDMA in indoor wireless radio networks," <i>Proc. PIMRC '93</i> , Yokohama, Japan, pp. 109-113, September 1993.	
llt	8	Davies et al., in A.T.R., Vol. 22, No. 1, 1988.	
llt	9	Telecom Australia, Rev. Activities, 1985/1986, pp. 41-43.	
llt	10	"Wireless personal Communications: Trends and Challenges", Rappaport, Woerner and Reed, editors, Kluwer Academic Publishers, 1994, pp. 69-80.	
llt	11	Proc. Virginia Tech. Third Symposium on Wireless Personal Communications, June 1993, pp. 15-1 to 15-12.	
llt	12	Fazel, "Narrow-Band Interference Rejection in Orthogonal Multi-Carrier Spread Spectrum Communications", Record, 1994, Third Annual International Conference on Universal Personal Communications, IEEE, 1994, pp. 46-50.	
llt	13	N. Yee, Jean-Paul M.G. Linnarta, G. Fettweis, "Multi-Carrier CDMA in Indoor Wireless Radio Networks", <i>IEICE Transactions on Communications</i> , Vol. E77-B, No. 7 pp. 900-904, July 1994.	
llt	14	L. Vandendorpe, " <u>Multitone Spread Spectrum Multiple Access Communications System in a Multipath Rician Fading Channel</u> ", <i>IEEE Transactions on Vehicular Technology</i> , Vol. 44 No.2, pp.327-337, May 1995.	
llt	15	L. Vandendorpe, " <u>Multitone Direct Sequence CDMA System in an Indoor Wireless Environment</u> ", <i>IEEE First Symposium on Communications and Vehicular Technology</i> , Benelux Delft Netherlands, pp.4.1-1 to 4.1-8, October 27-28- 1993.	
llt	16	K. Fazel, " <u>Performance of CDMA/OFDM for Mobile Communication System</u> ", <i>2nd IEEE International Conference on Universal Personal Communications</i> , Ottawa, Ontario, pp.975-979, October 12-15, 1993.	
llt	17	G. Tsoulos, et al. " <u>Adaptive Antennas for third generation DS-CDMA cellular systems</u> ", <i>Proc. IEEE VTC'95</i> , pp.45-49, Aug. 1995.	
llt	18	Y. Wang et al., " <u>Adaptive antenna arrays for cellular CDMA communication systems</u> ", <i>Proc. IEEE Intl. Conf. Acoustics, Speech and Signal Processing</i> , Detroit, pp. 1725-1728, 1995.	
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llt	20	A. Sandhu, et al. " <u>A Hopfield neurobeamformer for spread spectrum communications</u> ", <i>Sixth IEEE Int. Symposium on Personal, Indoor and Mobile Radio Communications</i> , Sept. 1995	
llt	21	A. F. Naguib, et al. " <u>Performance of CDMA cellular networks with base-station antenna arrays</u> ", in C. G. Gunther, ed. " <i>Mobile Communications - Advanced systems and components</i> ", Springer-Verlag, pp. 87-100, March 1994.	
llt	22	V. Ghazi-Moghadam, et al, " <u>Interference cancellation using adaptive antennas</u> ", <i>Sixth IEEE Int. Symposium on Personal, Indoor and Mobile Radio Communications</i> , pages 936-939, Sept. 1995.	
llt	23	H. Iwai, et al. " <u>An investigation of space-path hybrid diversity scheme for base station reception in CDMA mobile radio</u> ", <i>IEEE J.Sel.Areas, Comm.</i> , vol.SAC-12, pp.962-969, June 1994.	
llt	24	R. Kohno, et al. " <u>A spatially and temporally optimal multi-user receiver using an array antenna for DS/CDMA</u> ", <i>Sixth IEEE Int. Symposium on Personal, Indoor and Mobile Radio Communications</i> , Toronto, pages 950-954, Sept. 1995.	

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